



Attorney's Docket No.: 05110-016002

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant : David J. Boothby et al.  
Serial No. : 09/776,452  
Filed : February 2, 2001  
Title : SYNCHRONIZATION OF DATABASES USING FILTERS

Art Unit : 2171  
Examiner : F. Coby

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Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

Technology Center 2100

INFORMATION DISCLOSURE STATEMENT

Copies of the references listed on the attached form PTO-1449 are enclosed. Applicants do not concede the listed references are prior art. The enclosed references have come to applicants' attention in connection with litigations involving other patents owned by the assignee, Pumatech, Inc.

The examiner's attention is also drawn to a pending reexamination of U.S. Patent No. 6,212,529 (USSN 90/006,569, filed March 10, 2003). This application claims priority from the same application as the U.S. patent currently under reexamination. Applicants assume that the examiner has access to the reexamination file.

This statement is being filed with a Request for Continued Examination.

CERTIFICATE OF MAILING BY FIRST CLASS MAIL

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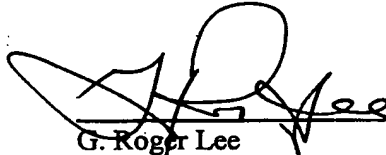
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Respectfully submitted,

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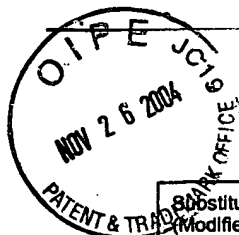
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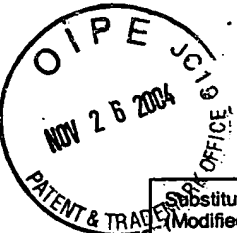
<b>Substitute Form PTO-1449</b> (Modified)  <b>Information Disclosure Statement by Applicant</b> (Use several sheets if necessary)  (37 CFR §1.98(b))	<b>U.S. Department of Commerce Patent and Trademark Office</b>	<b>Attorney's Docket No.</b> 05110-016002	<b>Application No.</b> 09/776,452
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U.S. Patent Documents							
Exami ner Initial	Desig. ID	Document Number	Publication Date	Patentee	Class	Subclass	Filing Date If Appropriate
	AA	6,330,568	12/11/01	Boothby			
	AB	6,272,074	08/07/01	Winner			
	AC	6,125,369	09/26/00	Wu et al.			
	AD	6,098,078	01/08/00	Gehani et al.			
	AE	6,081,806	06/27/00	Chang et al.			
	AF	5,999,947	12/07/99	Zollinger et al.			
	AG	5,995,980	11/30/99	Olson et al.			
	AH	5,974,238	10/26/99	Chase, Jr.			
	AI	5,966,714	10/12/99	Huang et al.			
	AJ	5,956,508	09/21/99	Johnson et al.			
	AK	5,928,329	07/27/99	Clark et al.			
	AL	5,924,094	07/13/99	Sutter			
	AM	5,892,909	04/06/99	Grasso et al.			
	AN	5,877,760	03/02/99	Onda et al.			
	AO	5,875,242	02/23/99	Glaser et al.			
	AP	5,838,923	11/17/98	Lee et al.			
	AQ	5,832,489	11/03/98	Kucala			
	AR	5,832,218	11/03/98	Gibbs et al.			
	AS	5,819,274	10/06/98	Jackson Jr.			
	AT	5,819,272	10/06/98	Benson			
	AU	5,813,009	09/22/98	Johnson et al.			
	AV	5,809,494	09/15/98	Nguyen			
	AW	5,737,539	04/07/98	Edelson et al.			
	AX	5,706,509	01/06/98	Man Hak Tso			
	AY	5,706,452	01/06/98	Ivanov			
	AZ	5,704,029	12/30/97	Wright Jr.			
	AAA	5,671,407	09/23/97	Demers et al.			

<b>Examiner Signature</b>	<b>Date Considered</b>
EXAMINER: Initials citation considered. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.	

Substitute Disclosure Form (PTO-1449)



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U.S. Patent Documents							
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	ABB	5,659,741	08/19/97	Eberhardt			
	ACC	5,649,182	07/15/97	Reitz			
	ADD	5,623,540	04/22/97	Morrison et al.			
	AEE	5,615,109	03/25/97	Eder			
	AFF	5,608,865	03/04/97	Midgely et al.			
	AGG	5,596,574	01/21/97	Perlman et al.			
	AHH	5,581,754	12/03/96	Terry et al.			
	AII	5,581,753	12/03/96	Terry et al.			
	AJJ	5,557,518	09/17/96	Rosen			
	AKK	5,530,939	06/25/96	Mansfield, Jr. et al.			
	ALL	5,530,853	06/25/96	Schell et al.			
	AMM	5,455,945	10/03/95	VanderDrift			
	ANN	5,421,012	05/30/95	Khoyi et al.			
	AOO	5,412,801	05/02/95	De Remer et al.			
	APP	5,323,314	06/21/94	Baber et al.			
	AQQ	5,276,876	01/04/94	Coleman et al.			
	ARR	5,220,540	06/15/93	Nishida et al.			
	ASS	5,201,010	04/06/93	Deaton et al.			
	ATT	5,197,000	03/23/93	Vincent			
	AUU	5,134,564	07/28/92	Dunn et al.			
	AVV	5,124,912	06/23/92	Hotaling et al.			
	AWW	4,939,689	07/03/90	Davis et al.			
	AXX	4,831,552	05/16/89	Scully et al.			
	AYY	4,819,191	04/04/89	Scully et al.			
	AZZ	4,817,018	03/28/89	Cree et al.			
	AAAA	4,807,155	02/21/89	Cree et al.			
	ABBB	4,807,154	02/21/89	Scully et al.			

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U.S. Patent Documents							
Exami ner Initial	Desig. ID	Document Number	Publication Date	Patentee	Class	Subclass	Filing Date If Appropriate
	ACCC	4,162,610	07/31/79	Levine			

Other Documents (include Author, Title, Date, and Place of Publication)		
Examiner Initial	Desig. ID	Document
	ADDD	Adly, "HARP: A Hierarchical Asynchronous Replication Protocol for Massively Replicated Systems," Computer Laboratory, Cambridge University, United Kingdom (undated)
	AEEE	Adly et al., "A Hierarchical Asynchronous Replication Protocol for Large Scale Systems," Computer Laboratory, Cambridge University, United Kingdom, Computer Science Department, Alexandria University, Egypt (undated)
	AFFF	Alexander, "Designed, sold, delivered, serviced," Computerworld Client/Server Journal, pp. 43 (10/01/95)
	AGGG	"All I need is a miracle; computer-aided educational packages; Small Wonders," Coastal Associates Publishing L.P. (03/1992)
	AHHH	Alonso et al., "Database System Issues in Nomadic Computing," Matsushita Information Technology Laboratory, New Jersey (undated)
	AIHH	Badrinath et al., "Impact of Mobility on Distributed Computations," Operating Systems Review (April 1, 1993)
	AJJJ	Barbara et al., "Sleeper and Workaholics: Caching Strategies in Mobile Environments (Extended Version)" (08/29/1994)
	AKKK	Brandel, "New offerings fuel revival of PIM," Computerworld, p. 39 (09/12/94)
	ALLL	Brodersen, "InfoPad-An Experiment in System Level Design and Integration," (03/01/97)
	AMMM	Demers et al., "The Bayou Architecture: Support for Data Sharing Among Mobile Users," Computer Science Laboratory, Xerox Palo Alto Research Center, California (undated)
	ANNN	DeVoe et al., "SOFTWARE: Day-Timer Organizer 2.0 based on format of paper-based PIM," InfoWorld, Vol. 17 (08/21/95)
	AOOO	Froese, "File System Support for Weakly Connected Operation," pp. 229-238 (undated)
	APPP	Greenberg et al., "Real Time Groupware as a Distributed System: Concurrency Control and its Effect on the Interface," Procs. Of the ACM CSCW Conf. On Computer Supported Cooperative Work, Oct. 22-26, North Carolina, ACM Press (01/01/94)
	AQQQ	Guy, "Ficus: A Very Large Scale Reliable Distributed File System," Technical Report CSD-910018, Computer Science Dept. UCLA (Technical Report) (06/03/91)
	ARRR	Guy et al., "Implementation of the Ficus Replicated File System," appeared in Procs. Of the Summer USENIX Conf., Anaheim, CA, pp. 63-71 (06/01/90)
	ASSS	Haber, "Renegade PIMS," Computerworld, p. 109 (12/12/94)
	ATTT	Hammer et al., "An Approach to Resolving Semantic Heterogeneity in a Federation of Autonomous, Heterogeneous Database Systems," Computer Science Department, University of Southern California (undated)

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Other Documents (include Author, Title, Date, and Place of Publication)		
Examiner Initial	Desig. ID	Document
	AUUU	Hammer et al., "Object Discovery and Unification in Federated Database Systems," University of Southern California (undated)
	AVVV	HP and IntelliLink connect HP 95LX with HP NewWave; IntelliLink for the HP NewWave; product announcement," HP Professional (08/1991)
	AWWW	"HP announces expanded memory version of palmtop PC, introduces 1-Megabyte HP 95LX and 1-Megabyte memory cards," Business Wire, Inc. (03/04/92)
	AXXX	Huston et al., "Disconnected Operation of AFS," CITI Technical Report 93-3, Center for Information Technology Integration, University of Michigan (06/18/93)
	AYYY	IBM Dictionary of Computing, Tenth Edition, 1993, pp. 268, 269, 31_
	AZZZ	IBM Dictionary of Computing, Tenth Edition, 1993, pp. 165, 268, 349, 370, 417
	AAAAA	IEEE Standard Dictionary of Electrical and Electronics Terms, Fourth Edition, 1988, p. 372, 368, 509, 563
	ABBBB	Imielinski, "Mobile Computing - DataMan Project Perspective," Rutgers University (undated)
	ACCCC	"IntelliLink 2.2: the software connection from desktop to palmtop; Software Review; IntelliLink 2.2; Evaluation," PC Magazine (04/28/92)
	ADDDD	"IntelliLink transfers palmtop, PC data; communications software from IntelliLink Inc; brief article; Product Announcement," PC Week (11/18/91)
	AEEEE	Jacobs et al., "A Generalized Query-by-Example Data Manipulation Language Based on Database Logic," IEEE Transactions on Software Engineering, Vol. SE-9, No. 1 (01/1983)
	AFFFF	Jenkins, "Users struggle with E-mail Woes," Computerworld, p. 97 (10/24/94)
	AGGGG	Johnson et al., "Hierarchical Matrix Timestamps for Scalable Update Propagation," submitted to the 10 <sup>th</sup> Int. Workshop on Distributed Algorithms (06/25/96)
	AHHHH	Joshi et al., "A Survey of Mobile Computing Technologies and Applications," (10/29/95)
	AIIII	Kistler et al., "Disconnected Operation in the Coda File System," School of Computer Science, Carnegie Mellon University, Pennsylvania (undated)
	AJJJJ	Krill, "NETWORKING: Tech Update," InfoWorld, vol. 18 (02/12/96)
	AKKKK	Kumar et al., "Log-Based Directory Resolution in the Coda File System," School of Computer Science, Carnegie Mellon University, Pennsylvania (undated)
	ALLLL	Larson et al., "A Theory of Attribute Equivalence in Databases with Application to Schema Integration," IEEE Transactions on Software Engineering, Vol. 15, No. 4, April 1989
	AMMMM	Mannino et al., "Matching Techniques in Global Schema Design," IEEE 1984
	ANNNN	Marshall, "Product Reviews: Windows contact managers," InfoWorld, Vol. 18 (03/25/96)
	AOOOO	McGoveran, "Distributed not yet delivered," Computerworld, p. 112 (06/06/94)
	APPPP	Meckler Corporation, "Palmtop-to-desktop linkage software," Database Searcher (06/1992)
	AQQQQ	Microsoft Press Computer Dictionary, Second Edition, 1994, p. 164
	ARRRR	Microsoft Press Computer Dictionary, Second Edition, 1994, pp. 105, 217, 227, 228

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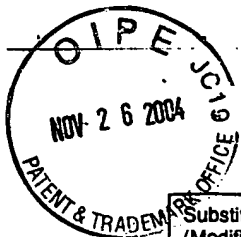
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by Applicant  
(Use several sheets if necessary)

(37 CFR §1.98(b))

Other Documents (include Author, Title, Date, and Place of Publication)		
Examiner Initial	Desig. ID	Document
	ASSSS	Microsoft Press Computer Dictionary, Third Edition, 1997, pp. 194, 228, 234, 449
	ATTTT	Milliken, "Resource Coordination Objects: A State Distribution Mechanism," (DRAFT) (12/10/93)
	AUUUU	Nash, "Replication falls short," Computer world, p. 65 (11/21/94)
	AVVVV	Noble et al., "A Research Status Report for Adaptation for Mobile Data Access," School of Computer Science, Carnegie Mellon University (undated)
	AWWWV	"PackRat PIM gets older and wiser with Release 4.0; PIM update sports enhanced interface, greater ease of use," InfoWorld (12/23/91)
	AXXXX	"Palmtop PCs: power by the ounce; Hardware Review; overview of six evaluations of palm-top computers; includes related articles on Editor's Choices, suitability-to-task ratings, impressions by individual users; evaluation," PC Magazine (07/1991)
	AYYYY	"Pen-based PCs ready for prime time; includes related article on comparison of operating systems, list of vendors of pen-based products," PC-Computing (11/1991)
	AZZZZ	Perera, "Synchronization Schizophrenia," Computerworld Client/Server Journal, p. 50 (10/01/95)
	AAAAAA	Petersen et al., "Bayou: Replicated Database Services for World-wide Applications," Computer Science Laboratory, Xerox Palo Alto Research Center, California (undated)
	ABBBB	"Product comparison: Atari Portfolio, Casio Executive BOSS, HP 95LX, Poqet PC, Psion series 3, Sharp Wizard," InfoWorld (12/16/91)
	ACCCCC	"PRODUCT COMPARISON: Personal information managers," InfoWorld, vol. 17 (08/07/95)
	ADDDDD	Qu et al., Technical Report entitled "Mobile File Filtering," TR-CS-97-02-Australian National University (02/01/97)
	AEEEE	Radosevich, "Replication mania," Computerworld Client/Server Journal, p. 53 (10/01/95)
	AFFFFF	Ratner et al., "The Ward Model: A Replication Architecture for Mobile Environments," Department of Computer Science, University of California (undated)
	AGGGGG	Reiher et al., "Peer-to-Peer Reconciliation Based Replication for Mobile Computers," UCLA (undated)
	AHHHHH	Reiher et al., "Resolving File Conflicts in the Ficus File System," Department of Computer Science, University of California (undated)
	AIIII	Ricciuti, "Object database server," InfoWorld, Vol. 18 (01/29/96)
	AJJJJ	"Riding the NewWave from PC to Palmtop: IntelliLink lets NewWave users transfer files," InfoWorld (06/03/91)
	AKKKKK	Salto et al., "Suitability of data models as canonical models for federated databases," Universitat Politecnica de Catalunya, Spain (undated)
	ALLLLL	Satyanarayanan, "Coda: A Highly Available File System for a Distributed Workstation Environment," School of Computer Science, Carnegie Mellon University (undated)
	AMMMM	Satyanarayanan, "Fundamental Challenges in Mobile Computing," School of Computer Science, Carnegie Mellon University (undated)
	ANNNNN	Satyanarayanan, "Mobile Information Access," IEEE Personal Communications, Vol. 3, No. 1 (Feb. 1996)

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Other Documents (include Author, Title, Date, and Place of Publication)		
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	AOOOOC	Sherman, "Information Technology: 'What Software Should I Use to Organize My Life'," (undated)
	APPPPP	Sheth et al., "A Tool for Integrating Conceptual Schemas and User Views," IEEE 1988
	AQQQQC	Schilit et al., "The ParcTab Mobile Computing System," Xerox Palo Alto Research Center, California (undated)
	ARRRRR	SPI Database Software Technologies Record Displays: Record 2, Serial No. TDB0291.0094 and Record 4, Serial No. iets0901.0073 (undated)
	ASSSSS	Staten, "PowerMerge 2.0 ships; syncs moved filed," MacWEEK, Vol. 8, p. 38(1) (01/03/94)
	ATTTTT	Tait, Doctoral Thesis entitled "A File System for Mobile Computing," (01/01/1993)
	AUUUUU	Tolly, "Enhanced Notes 4.0 gets thumbs-up," Computerworld, p. 54 (12/18/95)
	AVVVVV	Webster's Ninth New Collegiate Dictionary, 1986, pp. 114, 436, 440, 462, 573, 597, 620, 717, 906, 963, 979, 989, 1000, 1053, 1130, 1142, 1152, 1162, 1166,
	WWWW	Wiederhold, Gio, Database Design, Second Edition, McGraw-Hill Book Company, 1983, p. 2
	AXXXXX	Zaino, "Tapping the Top Values in PDAs - Personal digital assistants that sell for as little as \$300 can put a PC in the palm of your hand. Get the scoop on 8 contenders," HomePC, pp. 97 (10/01/96)
	AYYYYY	Zisman et al., "Towards Inoperability in Heterogeneous Database Systems," Imperial College Research Report No. DOC 95/11 (12/01/95)

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